



FIRST 'SPEAKER' of the restructured Faculty of Applied Science and Engineering Council, Prof. Frank C. Hooper, *left*, looks on as F. T. (Ted) Gerson, retiring president of Engineering Alumni Association, *right*, and John G. Cowan, alumni president-elect, *second from right*, present a "Varsity chair" to Dean James M. Ham to commemorate the constitutional change and the Dean's retirement from the chairmanship. Above the group is John Galbraith, first Dean of the Faculty, whose portrait hangs in the Galbraith Building council chamber.

Engineering Council restructured with 'Mr Speaker' as chairman

The following report on the revision of the constitutional structure of the Faculty of Applied Science and Engineering was prepared by Prof. L. E. Jones, Mechanical Engineering.

In its own distinctive approach to the improvement of academic governance, the Faculty of Applied Science and Engineering has recently completed a three-year process of revising its constitutional structure, effective in July — a significant accompaniment to the University's new government and a fitting preamble to the Faculty's centenary celebrations in 1973.

Two special committees on restructuring, working consecutively under the respective chairmanship of Profs. T. C. Kenney and Olev Trass, laboured over many hours and many details, and while there was no lack of confrontation, it was with principles rather than with prejudices. At the regular Council meeting of April 5, comprising both staff and students, the report as finally amended was adopted unanimously, as were the recommendations for implementation — and all approved, in due course and without modification, by the Acting President and by the Board of Governors.

Undergraduate students have for some time been members of the Faculty Council (and thereby of its committees) and have acquitted themselves with enviable distinction. In the new structure, Council will be further augmented by representatives of the graduate students and of the alumni, and committee formulation will take full advantage of the experience of all the estates. The presiding officer of Council will no longer be the Dean (as specified in the 1906 University of Toronto Act), but an annually elected officer called the Speaker, who, amongst other responsibilities, must ensure that Council deal only with major issues adequately prepared. Normal administrative requirements of the Faculty are to be handled by representative committees but their reports will not require Council action unless major issues of principle are at stake. In addition to its regular coordinating function, the Executive Committee (chaired by the Dean) has the right to challenge, but not to veto, the reports of standing committees, the ultimate resolution of any differences being made in Council.

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Faculty Association's Grievance Committee

The operating guidelines of the Grievance Committee of the University of Toronto Faculty Association have been endorsed and distributed to principals, deans and directors by Prof. D. F. Forster, Acting Executive Vice-President (Academic) and Acting Provost.

The Grievance Committee was created to deal with matters affecting the status

and appointment of faculty members. It is hoped that the Committee will operate informally with a view to providing assistance to faculty members who wish to have some information or who feel aggrieved in some way. The chairman of the committee is Prof. Frank Iacobucci of the Faculty of Law. For further information call the UTFA office (928-3351).

A new image and new role urged for Food Sciences

A committee of Senate set up to study the Faculty of Food Sciences "within the context of the University and Province" has submitted a final report, which the executive committee of the Senate has forwarded to Acting President John H. Sword.

The executive asked Dr. Sword to proceed as quickly as possible with arrangements for finding a new Dean and recommended that the committee report be sent on to the new Governing Council.

Early in 1971 the executive committee had before it a recommendation that the Faculty be phased out. After many protests against this proposal were received, the Senate asked then President Claude Bissell to appoint a committee of investigation. Its members were: Prof. J. Manery Fisher, Biochemistry, chairman; Prof. Iva Armstrong, acting Dean of the Faculty of Food Sciences since July 1970; Prof. Helen Finnegan, College of Education; Prof. A. M. Hunt, Dentistry; C. Ian P. Tate, president, U of T Alumni Association; Prof. E. L. Vitalis, Business; Dean F. Norman Hughes, Pharmacy; Dr. Roy G. Ellis, chairman, Health Sciences Council; Mrs. Patti Fleury, alumni representative on Senate; Miss Deborah Laskin, student; Prof. Elizabeth Upton, University of Guelph, and Prof. M. Wayman, Chemical Engineering.

The committee has called for "a new emphasis in the program of the Faculty which will enhance its academic credibility and at the same time generate increased revenue for the University of Toronto and for the Faculty". Its recommendations, the committee said, "if adopted will give the Faculty of Food Sciences a new image and a role in the Province clearly different from that played by any other post-secondary institution in Ontario."

The committee recommended:

"That the University of Toronto take fullest advantage of its own uniqueness to offer a program with two major objectives:

"a) to provide broad education in the field of home economics with a strong emphasis on the natural and social sciences, thereby fulfilling the need for highly qualified home economists for teaching posts and employment opportunities in a variety of community services;

"b) to provide specialized education for food scientists and nutritionists by encouraging the development of a strong Graduate Department of Food Chemistry and Nutrition with the aim of creating a centre of singular excellence in these disciplines in Canada.

"That these objectives be widely pub-

licized and that a strong image be presented to high schools, colleges, universities and the public.

"The committee believes that the foregoing will attract students of high calibre to this program and points out that an increase in the freshman intake from 60 (September, 1972) to 75 could be accommodated by the current facilities with very little additional cost. Hence, the overall financial effect on the Faculty would be favorable. Furthermore, the general student trend toward professional courses has already been demonstrated by an increased number of applicants to the Faculty this year. It is anticipated that the enhanced program will also attract students from other institutes and universities where such programs are not offered, and selected students from Colleges of Applied Arts and Technology who wish to upgrade their qualifications.

"That the University as a whole support the program by encouraging a greater involvement of other divisions of the University with the Faculty of Food Sciences. Because of the acknowledged broad base of a modern home economics program and because of the unique resources already on the campus, more interdisciplinary courses (both undergraduate and graduate) might be established in cooperation with the Faculty of Arts and Science, the Faculty of Applied Science and Engineering, the Faculty of Social Work, the Institute of Child Study, the Faculty of Management Studies, the School of Hygiene and perhaps others. Such inter-Faculty consortia, for the purpose of organizing a unique educational program unexcelled in quality in the Province, should be attractive to the administration as well as to students. This use of University resources would assure the provision to the Province of research-oriented graduates at minimal cost.

"That the Faculty of Food Sciences play the key role in organizing these courses i.e. be the focal point for the educational program.

"That the staff of the Faculty of Food Sciences be strengthened in order to fulfil this function.

"That the Faculty of Food Sciences be encouraged to develop its graduate program in cooperation with other University divisions with a view to educating research investigators for industry and the community, and teachers for universities, community colleges and other post-secondary educational institutions.

"That, until such time as the Graduate Department of Food Sciences has its own Ph.D. program, members of the

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Four heads of Library Science at new building official opening

Four heads of Library Science, past, present and future, were present at the official opening of the new Faculty of Library Science Building at St. George St. and Sussex Ave. on June 8.

They were Dr. Winifred Barnstead, who was the first director, serving from 1928 to 1951; Miss Bertha Bassam, her successor, who retired in 1964; Brian Land, who became Dean when the School recently became a Faculty, and Dr. Frances Halpenny, who takes office as Dean on July 1.

Earlier in the day, at the Convocation at which the first Masters of Library Science were graduated from the Fac-

ulty, Miss Barnstead received the honorary degree of Doctor of Laws.

William B. Harris, Chairman of the Board of Governors, formally declared the building open at a brief ceremony in the lecture theatre of the Faculty. With him on the platform were Acting President John H. Sword, Dr. Barnstead, Dean Land, and Miss Karen Savage, vice-president of the Faculty student council.

Present for the occasion were the new graduands, members of the teaching staff, guests from the administration and other faculties and schools, and representatives of the architects, project managers, and building contractors.

Appointed & Promoted

Medicine

DR. D. R. WILSON, professor in the Faculty of Medicine and surgeon-in-chief and head of cardiovascular surgery at the Toronto Western Hospital, is to succeed Dr. WILLIAM R. DRUCKER as professor and chairman of the Department of Surgery on July 1. Dr. Drucker is leaving to become dean of the Faculty of Medicine at the University of Virginia in Charlottesville.

Donald Richard Wilson was born in Saskatoon in July, 1917. He gained his B.A. from the University of Saskatchewan in 1939 and his M.D. from the University of Toronto in 1942. He enrolled in the Royal Canadian Army Medical Corps in 1942. He was elected a Fellow of the Royal College of Surgeons of Canada in 1950.

Dr. Wilson joined the Faculty in 1951 as a clinical teacher in the Toronto General Hospital and the Wellesley Hospital. He became an associate in Surgery in 1957 and joined the Toronto Western Hospital in 1958. In 1962 he was made assistant professor and in 1966 he was appointed professor. In that year, he also became the hospital's surgeon-in-chief. Under his aegis, the hospital achieved the forefront of Canadian cardiovascular surgery and it was there, in October, 1968, that Ontario's first heart transplant operation was performed.



Professor Wilson

Erindale College

JAMES DAVID CRICHTON has been appointed director of Physical Education at Erindale College effective July 1. He attended McGill University for a year and then went to the University of Waterloo where he received a Bachelor of Science degree in Kinesiology. Mr. Crichton attended Althouse College of Education last term, and

set up an intramural program for the students at Lambton College of Applied Arts and Technology, served on the recreation staff at the Ontario Hospital in Orillia, was a tutorial and seminar leader at University of Waterloo, and was acting athletic director at Conestoga College of Applied Arts and Technology.

Increase of 100 graduate degrees this year over number in 1971

Summary of the minutes, Council of the School of Graduate Studies, held May 16, 1972:

Business arising from the minutes

The Dean (i) stated that he will present at the next meeting of Council a proposal which will ensure all graduate students are aware of re-registration requirements; (ii) distributed to Council members revised instructions as to notification to candidate of reconvened Ph.D. oral examination; (iii) reported that there is no requirement for Centres or Institutes to be reviewed after five years; (iv) reported that the changes in regulations for the M.B.A. degree have been approved by the Senate.

Report of the dean

(i) Applications for admission to the School as of May 15, 1972, were 7,146 as compared with 7,569 at the corresponding date last year; the decrease in Division I is about 4.3%, Division II shows little change, Division III a decrease of about 13%, and Division IV a decrease of about 14.6%.

(ii) A statement had been issued that day by the Dean indicating that if it becomes necessary for full-time graduate students to be charged a third-term fee, such fee will be covered in 1972-73 by a special University of Toronto tuition bursary, but no decision has been made regarding part-time or post-residency fees. The University is continuing to

press for reconsideration of the proposed Government policy on fee structure.

(iii) The Provincial Government has announced an increase in service appointments ceiling from \$1,800 to \$2,400 per annum for full-time graduate students.

Reports of associate deans

Division IV: Associate Dean Butler reported, for information, that the Executive Committee was favourably impressed by a report prepared by Dr. Laidlaw on the first five years of the operation of the Institute of Medical Science.

Division I: Associate Dean Parker reported that O.C.G.S. has approved the recommendation of its Appraisals Committee that a proposed Ph.D. program in Chinese start in September, 1973.

Associate Dean Hume reported, for information only, that he had chaired a meeting of the Executive Committee of Division I which heard an appeal from a student in Division I against his failure at a reconvened Senate oral. The Executive Committee agreed that the statement "is not eligible for further Ph.D. candidacy at this University" should not appear on this student's transcript.

Division II: Associate Dean Sawyer reported, for information only, that because of the exceptional circumstances the Degree Committee had approved a request that a Ph.D. candidate who had spent only one year in full-time attendance on this campus, be permitted to spend his final year of residence off-campus.

Report of the Committee on Appeals Procedure

The recommendations contained in this report were discussed at length and, with minor changes, the report was adopted by Council.

New fellowships

Council approved the establishment of two new awards - the J. Edgar McAllister Foundation graduate bursaries in Applied Science and Engineering, and the W. W. Moorhouse Fellowship in Geology.

New Business

It was reported that the number of students recommended for degrees this year has increased by approximately 100 over last year.

Harold Innis Foundation holds first major Innisfree conference

The Harold Innis Foundation staged its first major conference at its new Innisfree Building near Ottaville from May 5 to 7 on the theme "The Significance of Harold Innis".

In addition to professors and students there were participants from the local community and former students and friends of Harold Innis who are supporters of the Foundation. The total registration exceeded 70 individuals, many of whom were accommodated in private homes throughout the Ottaville-Norwich area. The active Local Committee for the Foundation provided catered meals for the weekend.

Participating in the activities were members of the University of Toronto staff who have long-standing professional interests in the area of political economy and communications theory. Prof. Melville Watkins presented a paper on Innis' contributions to Canadian political economy, and Prof. Abraham Rotstein developed a thesis on the relationship between symbolism and society. One of

the highlights was the after-dinner talk by Prof. Marshall McLuhan.

Other speakers included Profs. James Carey, University of Illinois, Shelagh Lindsey, University of Manitoba, Alan Thomas, OISE, and Peter Usher, Department of Indian Affairs and Northern Development, who contributed papers applying Innis' ideas to various facets of Canadian life. Moderators for the discussion which followed each paper were Peter Russell, Principal of Innis College; Frances Halpenny, Editor of the Dictionary of Canadian Biography and Designate of the Faculty of Library Science, and Prof. Irene Spry, University of Ottawa.

Innisfree Farm, the birthplace of Harold Innis, was purchased in 1969 by the Harold Innis Foundation. The new conference centre on the property, which can accommodate two dozen comfortably, is available for rent to any interested group on a daily or weekend basis. Inquiries may be made through Innis College.

New image and new role urged for the Faculty of Food Sciences

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Faculty of Food Sciences should seek appointments in other Graduate Departments on the campus for the purpose of training Ph.D. candidates. Meanwhile the present Graduate Department of the Faculty of Food Sciences should continue to train students to the Master's level as it is currently doing.

"That, though fully cognizant of the high cost of expanding doctoral programs, a strong centre for research in food chemistry and nutrition should be established by encouraging the development of a new Graduate Department of Food Chemistry and Nutrition. . .

"That much closer association with hospitals be established particularly in

connection with the training of dietitians and nutritionists at both the undergraduate and graduate levels.

"That careful reconsideration be given to the offering of credit courses by the Faculty to students in the Arts and Science Faculty, in the Division of University Extension and in other divisions of the University.

"That a new Dean be sought who will provide leadership to the needs of the Faculty and the community as herein outlined, and who will have a strong record of sound research.

"That the present name of the Faculty be changed in accordance with recommendations by the Faculty of Food Sciences."

Engineering Council restructured with 'Mr Speaker' as chairman

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This new approach to the legislative process will greatly enhance the speed and efficiency of Faculty operations, but will drastically curtail the previously held privileges of individual inquiry and debate. Accordingly, an Ombudsman committee has been established, which consists of four elected members (two staff, two students) with the Speaker as ex-officio non-voting chairman. Through this committee, any academic member of the Faculty (staff, undergraduate or graduate student) may challenge any intra-Faculty administrative, executive or policy decision below the level of Council.

The Council meeting of June 6 became the last occasion on which the Dean officially presided. To mark this historic event and to commemorate the transition in governing structure, symbolic ceremonies took place at the close of the meeting. The Engineering Alumni

Association, through its president, F. T. (Ted) Gerson, and its president-elect, John G. Cowan, presented Dean James M. Ham with a "Varsity Chair", suitably inscribed, as a personal tribute inherently reminiscent of his significant contributions to the Faculty and to the alumni and of his active loyalty to the University. Before moving forward to receive the gift, the Dean asked the newly elected Speaker, Prof. Frank C. Hooper, to take the chair and thus had the first official opportunity to use the new form of address, "Mr. Speaker".

In acknowledgement, Dean Ham emphasized the importance of the Centenary as a significant reminder of our historical roots wherefrom to recapture the closely knit relationships of earlier times and thus to enhance the current process of reaffirmation and renewal. At the conclusion of proceedings, the Dean betokened his new role in Council by moving the adjournment.

U of T is exhibiting anti-pollution devices

Displays of pollution-measuring equipment and demonstrations of scientific techniques used to monitor environmental contamination will be among exhibits from the Institute for Environmental Sciences and Engineering at the Pollution Control Show, June 14-16. Also on view will be Miss Purity, the low pollution car designed and built in 1971 by U of T engineering students.

The Pollution Control Show is being held in the Automotive Building in Exhibition Park. U of T exhibits are in Booths 655 to 660, between aisles 600 and 700.

Concurrent with the Show there will be a three-day technical conference, "Pollution Control in the Seventies".

STAFF NOTES

Arts and Science

MRS. IVANA VERSIANI attended the Camões Quatercentenary Conference held at the University of Connecticut, April 21-22.

PROF. D. MARIN read a paper on "The Political Situation in Spain" to the closing seminar of the Canadian Institute of International Affairs (Women's Section) in Toronto, April 22.

PROF. ERICH VON RICHTHOFEN read a paper and conducted a seminar on "Epica caballeresca casi olvidada: et hijo del Cid" at McGill University on March 23 and 24.

PROF. G. E. MACDONALD gave a collo-

quium talk on "Language Acquisition in Children" at the University of Louisville on March 10.

PROF. D. E. BERLYNE gave a series of seminars at the Center for Advanced Study in Theoretical Psychology, University of Alberta, entitled "The Motivation of the Quest for Knowledge", "The Neo-associationist Conception of Directed Thinking", "Reward, Pleasure, Hedonic Value" and "Psychology and Aesthetics", Feb. 13-18. He also gave the following colloquium talks: "Measures of Aesthetic Appreciation" at the University of Victoria, Feb. 18; "Experimental Aesthe-

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COMING EVENTS

JUNE

8 THURSDAY

Lecture

"Plasticity of Dispersion Hardened Alloys". Dr. L. M. Brown, University of Cambridge, England. 116 Wallberg Building. 4 p.m. (SGS and Materials Research Centre)

9 FRIDAY

Seminar
Medicine

"The Nature of Hormone-dependent Cells in Culture". Dr. Gordon Sato, Department of Biology, University of California, San Diego. 114 C. H. Best Institute. 2 p.m. (Banting and Best)

17 SATURDAY

Festival

Festival of Canadians from other lands — crafts, music, dance, films, tours, children's games. Free all day. Royal Ontario Museum. 10 a.m. to 9 p.m.

21 WEDNESDAY

Theatre

"Bousille and the Just" by Gratien Gélinas, directed by Gerry Banning. Summer Centre Theatre, 4 Glen Morris St. June 21–July 1. 8.30 p.m. Free (Drama Centre)

JULY

5 WEDNESDAY

Theatre

"The Life and Death of Almost Everybody" by David Campton, directed by Wayne Fairhead. Summer Centre Theatre, 4 Glen Morris St. (923-8705). July 5–15. 8.30 p.m. Free (Drama Centre)

19 WEDNESDAY

Theatre

"In the Wind of the World's Anger" by Angus Braid, directed by Sheldon Clarke. Summer Centre Theatre, 4 Glen Morris St. July 19–29. 8.30 p.m. Free (Drama Centre)

Engineering students design a car for city use with low pollution

A successor to the award-winning low-pollution car "Miss Purity" will represent the University of Toronto in the Urban Vehicle Design Competition at the GM Proving Grounds in Milford, Michigan, Aug. 6–11.

The competition, open to all universities and colleges, is organized, like its 1970 predecessor, the Transcontinental Clean Air Car Race, by a committee of U.S. and Canadian students. Some 90 institutions are expected to send entries.

Whereas the emphasis in 1970 was on a car that would be equally at home in the city and on the open highway, this year's competition calls for a strictly urban vehicle that emits a minimum of pollutants, provides maximum protection in both high and low speed collisions, uses fuel efficiently and offers good general performance.

To meet these conditions, a team of University of Toronto engineering students have designed an all-electric vehicle smaller than any commercial car now on the road. Only 108 inches long and more than two feet shorter than a popular German import, in its stripped-down form it resembles a lunar lander more than an Earth car.

It will carry bumpers designed to sustain collisions with a stone wall at speeds up to five miles an hour without damage to the vehicle, an advantage that no mass-produced commercial vehicle offers. Its batteries would probably provide energy for 120 miles of steady 30 m.p.h. driving or 60 miles of typical

downtown performance, before recharging at any domestic Hydro electric outlet. It will carry two persons and provide some baggage space.

Unlike the multi-million dollar budget allotted to any new Detroit model, the initial U of T car is likely to cost between \$30,000 and \$40,000. However, even the sources for most of this modest amount have not yet been found and students are working for nothing, in the hope that further funds will eventually be forthcoming. The only cash assistance to date is \$7,500 from the Federal Department of Transport. Uniroyal Limited have offered six tires, belting needed for engine drives, materials for the interior and the resins needed for the fibreglass body. Globelite Batteries Canada Limited have donated 16 batteries, and accessory replacements. Aluminum Company of Canada Limited has provided aluminum for the chassis; General Impact Extrusions (Manufacturing) Limited will provide the energy-absorbing units for the bumpers.

Biggest blow to the team was the news that the Federal Opportunities for Youth program had turned down all known Ontario applications for funds, including one from U of T students for \$13,000, while making grants to groups in other provinces. "This seems particularly unfair", says Juri Otsason, graduate student team leader, "in view of the fact that, in the 1970 competition, Ontario was the only province to field entries, those of the U of T and St. Clair College in Windsor, and both did very well."



DR. F. KENNETH HARE, professor of geography and of physics, and a member of the Institute for Environmental Sciences and Engineering, has been granted leave of absence from the University for two years. He has been appointed Director-General of Research Coordination in the federal Department of Environment's Policy, Planning and Research Service. The Hon. Jack Davis, Minister of the Environment, said that Dr. Hare will work with A. T. Davidson, assistant deputy minister for policy, planning and research in formulating the Department's environmental science policy.

STAFF NOTES

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tics" at the University of Connecticut, March 8 and at Wesleyan University on March 10; "Uncertainty and Learning" at Teachers' College, Columbia University on March 9; "The Roots of Pleasure" at the Clarke Institute of Psychiatry on April 5. He was guest speaker at the Honours Undergraduate Thesis Conference at the University of Guelph on April 6, the topic being "The Golden Section: The Most Important Problem in Psychology?"

PROF. GEORGE T. ARTOLA was the Canadian delegate to the International Sanskrit Conference held at the Vigyan Bhavan in New Delhi from March 26 to 31, where he was chairman of the Sanskrit Fable Literature Section. He read a paper "Sanskrit Fables and Misogyny in the Medieval World". PROF. T. VENKATACHARYA also attended the Conference.

PROFS. J. L. MASSON and N. K. WAGLE, together with the Department of Sanskrit and Indian Studies' Guest PROF. D. SEYFORTH RUEGG, attended the Conference of The American Association for Asian Studies March 27–29 in New York City. Prof. Masson gave a paper on "The Sakṛdaya (imaginative reader) in Sanskrit literary criticism".

On Jan. 5 PROF. R. M. SMITH gave a seminar at McMaster University's Department of Classics on "Latin and Sanskrit". Prof. Smith attended the meetings of the American Oriental Society at Chapel Hill, N.C., April 18–20, where he read a paper on "Chronology from Ornament in India" and presided over a section on Indian Religion.

PROF. C. H. BEDFORD visited the University of Kansas on April 13 and 14, where he gave two public lectures on "Christ and Antichrist in the Historical Novels of D. S. Merezhkovsky" and "Merezhkovsky's Christianity of the Third Testament". PROFS. C. H. BEDFORD, K. B. FEUER and D. STRUK attended the annual meeting of the American Association for the Advancement of Slavic Studies in Dallas, Texas, April 15–18.

PROF. M. SURDUCKI has written the following lectures, which were broadcast within the Serbian Radio Hour "Sumadija" Station CHIN-FM, Toronto: "Srpsko Rodoljubivo Pesništvo" (Serbian Patriotic Poetry), Sept. 12; "120 Godina od Smrti Njegoša" (120 Years from the Death of Njegoš), Oct. 31; "Petar Kočić — Pisac-Buntovnik Iz Bosanske Krajine" (Petar Kočić — Rebellious Writer from the Bosnian Krajina), Dec. 5; "Humor Milovana Glišića" (Humour of Milovan Glišić), Jan. 9; "O Srpskim Književnicama" (Serbian Woman Writers), Feb. 27; "Branko Radičević — Začetnik Našeg Modernog Pesništva" (Branko Radičević — Father of Modern Poetry of Serbia), April 2.

PROF. GLEB ZEKULIN has prepared and

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Ph.D. Orals

All members of the Graduate Faculty have the right to attend Ph.D. Oral Examinations.

Wednesday, June 14

J. L. M. Burke, Department of Mathematics. "On \ast -Equivalence in \ast -Regular Rings". Thesis supervisor: Prof. I. Halperin. Room 108, 16 Hart House Circle. 10 a.m.

Robert Stuart Schemenauer, Department of Physics. "A Study of Heat and Mass Transfer of Snow Crystal, Conical Graupel and Small Hail". Thesis supervisor: Prof. R. List. Room 108, 16 Hart House Circle. 2 p.m.

Davor Stefan, Department of Chemical Engineering. "Molecular Motions in Polyblends and Composites Based on Bisphenol-A Polycarbonate". Thesis supervisor: Prof. H. L. Williams. Room 107, 16 Hart House Circle. 10 a.m.

Thursday, June 15

D. Jacobson, Department of Mathematics. "Automorphism Extending Rings with Respect to Polynomial Extensions". Thesis supervisor: Prof. S. J. Pierce. Room 108, 16 Hart House Circle. 2 p.m.

K. S. Dichmann, Department of Chemistry. "The Crystal Structures of Some Organic Compounds of Chemical Interest". Thesis supervisor: Prof. S. C. Nyburg. Room 107, 16 Hart House Circle. 2 p.m.

Friday, June 16

K. Ono, Department of Civil Engineering. "The Use of Mathematical Models in Fracture Mechanics With Special Reference to Cement Paste, Concrete and Reinforced Concrete". Thesis supervisor: Prof. R. H. Mills. Room 107, 16 Hart House Circle. 10 a.m.

Edward John Ryan, Department of Chemical Engineering. "Particle Behaviour in Liquid-Fluidized Systems". Thesis supervisor: Prof. J. W. Smith. Room 108, 16 Hart House Circle. 10 a.m.

David Balsillie, Department of Botany. This final Ph.D. oral examination was to have taken place on Monday, June 19th at 10 a.m., but has been re-scheduled as follows: Friday, June 16th, 10 a.m., Room 201, 65 St. George Street.

R. Doyle, School of Social Work. "Perceived Effectiveness of Community Development Organizations in Three Canadian Communities". Thesis supervisor: Prof. N. Markus. Room 107, 16 Hart House Circle. 2 p.m.

Thursday, June 22

P. Beam, Department of English. "The Theme of Healing in Kipling's Poetry and Prose". Thesis supervisor: Prof. F. E. L. Priestley. Room 108, 16 Hart House Circle. 2 p.m.

Friday, June 23

Miss Vandra Masemann, Department of Anthropology. "Motivation and Aspirations in a West African Girls' Secondary School". Thesis supervisor: Prof. W. P. Carstens. Room 108, 16 Hart House Circle. 2 p.m.

K. Gnananathan, Department of Botany. "Revision of the Genera Lasiosphaeria and Bombardia". Thesis supervisor: Prof. R. F. Cain. Room 108, 16 Hart House Circle. 10 a.m.

Tuesday, June 27

A. A. Feintuch, Department of Mathematics. "On Operator Algebras and Invariant Subspaces". Thesis supervisor: Prof. P. Rosenthal. Room 108, 16 Hart House Circle. 2 p.m.

A. Kurosky, Department of Biochemistry. "Studies on the Amino Acid Sequence of Penicillopepsin". Thesis supervisor: Prof. T. S. T. Hofmann. Room 107, 16 Hart House Circle. 2 p.m.

Wednesday, June 28

T. Owusu-Ansah, Department of Mathematics. "Hermitian Operators of Meromorphic Type on Banach Spaces". Thesis supervisor: Prof. P. Rosenthal. Room 108, 16 Hart House Circle. 2 p.m.

Thursday, June 29

S. A. Ola, Department of Civil Engineering. "The Influence of Cementation-Type Bonds on the Stress-Strain Behaviour of Soils". Thesis supervisor: Prof. T. C. Kenney. Room 108, 16 Hart House Circle. 2 p.m.

Mrs. M. Percy, Department of Biochemistry. "The Structure and Properties of IgG (Fac), An Atypical Immunoglobulin". Thesis supervisor: Prof. G. E. Connell. Room 108, 16 Hart House Circle. 10 a.m.

Peter Rint, Department of Metallurgy and Materials Science. "On the Recovery of Zirconium Metal of Fused Salt Electrolysis". Thesis supervisor: Prof. S. N. Flengas. Room 107, 16 Hart House Circle. 10 a.m.

Monday, July 10

Dr. E. Houttuin, Department of Physiology. "Effector Pathways of Blood Volume Regulation by the Kidneys". Thesis supervisor: Prof. J. W. Pearce. Room 108, 16 Hart House Circle. 10 a.m.

Three Canadian plays scheduled for Summer Centre Theatre

This season at the Drama Centre's Summer Centre Theatre (4 Glen Morris St. — 923-8705), three Canadian plays will be included in the five-play season.

They are "Bousille and the Just" by Gratien Gélinas, "In the Wind of the World's Anger", a new play by Angus Braid, author of "Outport", and "Charisma" by Martin Hunter, author of "Young Hunting". These are supported by a special grant from the Province of Ontario Council for the Arts and by the Varsity Fund.

The season opened on June 7 with "Scuba Duba" by Bruce Jay Friedman, a black-edged comedy from the U.S. directed by Asheleigh Moorhouse. "Bousille and the Just" directed by Gerry Banning follows June 21–July 1. David Campton's "The Life and Death of Almost Everybody" directed by Wayne Fairhead is scheduled for July 5–15. "In the Wind of the World's Anger" directed

by Sheldon Clarke is from July 19 to 29, and "Charisma", directed by Tony Stephenson ends the season, Aug. 2–12.

Each production plays from Wednesday to Saturday at 8.30 p.m. admission free.

The artistic director for the season is Tony Stephenson (962-8403), business manager is Robert Martin, and designs for all the shows are by Wilf Pegg.

EXHIBITIONS

"La Soierie Française" — silks from late 18th century to the present from ROM collections. Textile Gallery. Until June 29.

Stamps — postmarks and cancellations from early Canada. Stamp Corner, ROM. Until June 30.

David Rifat Drawings. Hart House Art Gallery. July 1–22.

Exhibition of prints by Erindale Students. Foyer, Preliminary Building, Erindale College. To Sept. 16.

STAFF NOTES

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written the text of the lecture "Slovak Poetry: A Historical View" which was read at the joint meeting of the Czechoslovak National Association and of the Czechoslovak Society for Arts and Science in Toronto on April 11.

DR. BRINKHURST gave seminars on the Systematics and Ecology of Aquatic Oligochaetes at Ottawa University on March 8, McGill University on March 22 and Washington University, St. Louis, Missouri, on April 11.

Erindale College

PROF. D. P. MORTON spoke to the Colloquium of Canadian Historians at York University on "Aid to the Civil Power: The Stratford Strike of 1933" on April 11.

PROF. J. R. PERCY visited the University of Western Ontario on March 2 to conduct a seminar on "Multiple Periods in Variable Stars" and to give the H. R. Kingston Memorial Lecture on "Stellar Magnetism" before the Royal Astronomical Society of Canada, London Centre.

PROF. R. RACINE visited the Hale Observatories and the California Institute of Technology in Pasadena, and spent three nights at the Palomar Observatory, March 9-11, studying extragalactic star clusters with the 200-inch telescope. He was also invited to an international conference on "The Role of Schmidt Telescopes in Astronomy" held in Hamburg, March 20-23, jointly sponsored by the European Southern Observatory, the Hamburg Observatory and the Science Research Council of the United Kingdom.

PROF. P. V. RANGNEKAR attended the Canadian Society of Plant Physiologists eastern meeting at the University of Windsor, Jan. 7, and presented a paper "Effects of Calcium Deficiency on the Metabolism of Tomato Leaf Tissue".

PROF. N. SHNEIDMAN spoke at the University of Western Ontario on Feb. 16 on "Problems of History and Philological Education" and on "Recent Developments in Soviet Education".

PROF. J. ŠKVOŘECKÝ read a paper entitled "Mostly about American Writers" which dealt with the censorship of American writing in Czechoslovakia at a Conference on Literature and Politics in the Soviet Union and Eastern Europe organized by Stanford University.

PROF. F. D. TALL suggested and helped plan the first Ontario Mathematical Logic Day, held at York University, March 4. He gave a paper on "Some Applications of Set Theory to Topology, XXIV: Separability, Normality, and Almost Disjoint Subsets of ω ". On Feb. 17 Prof. Tall addressed the University of Wisconsin Topology Seminar on "The Countable Chain Condition vs. Separability; Martin's Axiom Applied to Complete Spaces".

PRINCIPAL J. T. WILSON was in Ottawa from Jan. 14 to 17 to address the Geological Survey of Canada, the annual dinner of the Science Writers of Canada and at the invitation of the Parliamentary Centre for Foreign Affairs and Foreign Trade to meet some U.S. Senators and Congressmen to discuss China. On Feb. 1 he spoke at Carleton University; on March 7 he addressed the Canadian Exploration Geophysicists' Society and on March 8, 11 and 13 respectively he addressed meetings at the University of Guelph, The Royal Canadian Institute and The Canadian Club of Toronto, on his recent trip to China. On March 15, 16 and 17 he gave two addresses each at the Universities of Winnipeg, Saskatchewan and Alberta.

PROF. C. CLOUTIER-WOJCIECHOWSKA has been invited to become a member of l'Association des Ecrivains de langue française de Paris.

Applied Science and Engineering

From Nov. 15 to 19, PROF. W. JANISCHKEWYK, in collaboration with DR. F. C. CREED and DR. M. C. C. COLLINS of National Research Council, has offered, at the premises of NRC, a short course on "High Voltage Impulse Techniques". The course attracted 21 participants, from as distant corners of the North American Continent as Vancouver and Washington, D.C. Participants were mostly persons closely involved with High Voltage Testing; half of them came from United States. The course was sponsored jointly by the Electrical Engineering Department and the Division of Extension of U of T, and the Electrical Engineering Section of the National Research Council. At the opening, PROF. G. R. SLEMON and W. A. CUMING, Assistant Vice-President (Laboratories) welcomed the participants. PROF. W. G. MACELHINNEY presided over the opening session.

PROF. W. M. WONHAM lectured on "Algebraic Synthesis Problems in Multivariable Control" at Cornell Aeronautical Laboratories

on Dec. 7. On the same date he addressed the Buffalo Section of the IEEE Control Society on the topic "Recent Algebraic Events in Linear Multivariable Control".

Food Sciences

A workshop on "Textiles in the 70's" was held on April 22 at Carr Hall, St. Michael's College under the sponsorship of the Faculty of Food Sciences. PROF. B. A. CROSBIE introduced the three invited speakers and DR. T. FRANCIS moderated the afternoon panel discussion. DR. J. J. MORAN and PROF. M. VILLERS were two of the seven-member panel. Over 130 people attended the event which will likely become an annual affair under the auspices of the Faculty's Community relations Committee.

Forestry

PROF. A. S. MICHELL attended the meeting of the Logging Operation Group, Canadian Pulp and Paper Association, held in Montreal, April 12-14.

Music

DEAN JOHN BECKWITH spoke at Queen's University, Kingston, on March 1, on "Some Canadian Music Works of the 1960's".

Physical & Health Education

PROF. J. V. DANIEL completed his Ph.D. from the University of Illinois at Urbana, Champaign in July. The title of the dissertation was "Differentiated Roles and Job Satisfaction of Faculty Members in Departments of Physical Education and Athletics in Ontario Universities". Prof. Daniel presented the findings to the C.A.H.P.E.R. convention in June. He also gave a paper on "The Organization and Decision Making" at the same meetings. During the summers of 1967, 1968, 1969 and 1970, he was project director and field researcher (1969) in the co-operative project between the National Council of Y.W.C.A.'s and the Rama Indian Reserve to establish relevant community organization and an ongoing indigenous leadership training program to facilitate the development and growth of recreation on the Reserve. Dr. Daniel has recently been appointed chairman of the Research and Development Committee of the Water Safety Division of the Canadian Red Cross Society.

Dentistry

DR. R. L. ELLIS will spend four weeks at Pangnirtung, Baffin Island, during May and June, participating in a federal government dental care plan.

Among those attending and presenting papers to the annual meeting of the International Association for Dental Research, in Las Vegas, March 23-25, were DR. J. A. HARGREAVES, DR. J. H. HIBBERD, DR. A. M. HUNT, DR. A. M. MELCHER, DR. F. POPOVICH, DR. D. C. SMITH and DR. G. W. THOMPSON.

Pharmacy

DR. MURRAY H. FREEDMAN lectured at the Weizmann Institute of Science, Rehovot, Israel, (a) March 26 to the Biophysics Department and the Department of Chemical Immunology on "Natural Abundance and Selective Enrichment Carbon - 13 Fourier Transform Nuclear Magnetic Resonance Studies on Linear and Cyclic Peptides and Protein Systems"; (b) March 28 to the Department of Chemical Immunology on "Structural and Allotypic Studies on Electrophoretically Homogeneous Rabbit Anti-hapten and Pneumococcal Antibodies".

Management Studies

PROF. J. CRISPO addressed a conference sponsored by the Canadian Labour Congress and Private Planning Association on "A Viable Income Policy for Canada" on Dec. 21 in Montebello, Que. He also attended Annual Meetings of the Industrial Relations Research Association, both as an Executive board member of the Association and as the Chairman of a session on "European Labour in Transition" held in New Orleans, Dec. 26-28; and addressed the Ontario Electrical Contractors' Association on Jan. 12 on "The Future of Collective Bargaining". Prof. Crispo delivered a seminar on "A Viable Anti-Inflationary Strategy" at Queen's University, at the Income Policy Seminar, Department of Economics on Feb. 9. He testified before the Ontario Select Committee on Economics and Cultural Nationalism on "A Viable Strategy for Canadian Nationalists" Feb. 17. He also testified before a Special Internal Inquiry of the Newspaper Guild concerning a proposed more independent status for its Canadian locals on March 1; and addressed a Construction Industry luncheon at the Canadian National Exhibition Grounds on "Construction Industrial Relations" on March 15.



LYNN R. WILLIAMS, whose appointment to the Governing Council was announced last week by Colleges and Universities Minister George A. Kerr, has been active in the labour movement in Ontario for the past 25 years. As a staff representative and, at present, district representative of the United Steelworkers of America, District 6, Mr. Williams has been engaged in major union organizational and union-management negotiation work. A founder of Brock University, he served on its board of governors and was also, for three years, on the board of directors of the C. M. Hincks Treatment Centre in Toronto.

Hygiene

DR. JOHN R. BROWN attended the Eleventh Annual Meeting of the Society of Toxicology in Williamsburg, Va. and on March 6 presented a paper entitled "Concentrations of Chlorinated Hydrocarbon Pesticides in Human Blood and Their Relation to the Concentration in Depot Fat".

PROF. F. W. DOANE and MISS N. ANDERSON presented the following papers at the annual meeting of the Laboratory Division of the Canadian Public Health Association, Toronto, Dec. 2-4. "A Virus Isolation System for Use in the Field" and "Modification of Viruses".

Aerospace Studies

DR. H. S. RIBNER attended a meeting of editors of the Canadian Aeronautics and Space Journal, Ottawa. He attended the 7th International Congress on Acoustics, Budapest, Aug. 18-26, chaired one session, and presented a paper (co-authors M. E. WANG and K. Y. LEUNG) on "Air Jet as Acoustic Lens or Waveguide". He attended a meeting at NRC to discuss the Engineering Acoustic Facility, a proposed major new NRC facility, Ottawa, Sept. 23. He participated in a meeting of the Canadian Committee on Acoustics, Ottawa, Sept. 30-Oct. 1. Dr. Ribner participated in a course on aeronautics at the NASA Lewis Laboratory, Cleveland, Dec. 13, with a lecture on "Theories of Jet Noise". He presented a popular lecture on "Jets and Noise" at the Toronto Branch, Institution of Electrical Engineers, Jan. 11.

Friends honour Mrs. Kay Riddell on her retirement from ISC

On the approach of her retirement from the International Student Centre, where she had been the first Director and latterly Overseas Student Adviser, friends of Mrs. R. G. (Kay) Riddell held a reception in her honour at Cumberland House.

That building, said Robin Ross, Vice-President and Registrar, "is a testament to years of careful planning and selfless work on Kay Riddell's part, and also on the part of many good friends of the University. We are indeed indebted both to Kay and the Rotary Clubs for all that has been done to bring about this centre."

From many letters of good wishes to Mrs. Riddell, Mr. Ross read one from former Prime Minister Lester B. Pearson, who recalled that Mrs. Riddell's late husband at the time of his death "was just beginning his most important period of international service. It has been a source of joy to me how Kay has followed on in the same field of service in

COU comment on graduate aid

The Council of Ontario Universities has issued a statement welcoming the recent announcement by the Minister of Colleges and Universities that the universities will be permitted more freedom in the use of provincially derived funds to assist graduate students.

A student will be permitted to earn up to \$2,400 as a Teaching Assistant, provided, of course, that such employment is available. The previous limit was \$1,800. Also, universities will be permitted to use operating funds for bursaries to a maximum of \$300 a student to graduate students who register for three consecutive terms, the first of which begins in September 1972.

COU's own agreement on maximum student support packages is amended to permit the award of a "fee bursary" in addition to the previously established maxima.

While the Council welcomes the freedom to grant bursaries as a temporary palliative, it does not regard it as providing a long-term solution. The Council believes that there are preferable alternatives. The Council is hopeful that the Minister will be willing to consider proposals for alternatives to the imposition of the third term fee. COU is studying the problem as a matter of highest priority.

For rent and wanted

Completely furnished 3-bedroom house, with living room, separate wood-panelled dining room, glassed landing, 1½ washrooms, kitchen, breakfast nook, fenced garden and garage; in pleasant residential area at Avenue Rd. between Eglinton and Lawrence, close to Allenby School, minutes by car from downtown, steps from bus that connects with subway; available July or August, 1972 for one year at \$375 per month. Please call 487-0741.

Doctor doing graduate studies wants a 2/3 bedroom furnished house for self and family starting mid-August to June 1973. Particularly interested in close proximity to the U of T or easy access to TTC. Please contact Dr. José B. Gotay, 4365 Kirkwood Dr., Saginaw, Mich. 58603, or Wayne Pounder, Toronto (364-8142).

Lawrence/Leslie on Tallwood Park, readily accessible to public transportation, 4-bedroom house, den, 2 baths, fully furnished and equipped; fireplace, piano. July 1 for 1 year. \$450 monthly. Call 444-8684.

July-August, town-house, Walmer/Bernard; 5 bedrooms, 3 reception rooms; modern kitchen with new dishwasher, washer and drier; fully furnished and equipped. \$375 monthly. Fenced garden, 1 block to park, buses, shopping. Walk to University. Telephone 962-9009.

a different way but with the same dedication and effectiveness."

On behalf of her friends, Mr. Ross presented to Mrs. Riddell a carving and a cheque as an expression of their appreciation for her contribution to the International Student Centre.

U of T medical graduate takes post with MEDICO

Dr. Kenneth O. Ockenden, of Onaping, Ont. has begun a two-year tour of duty with MEDICO, a service of CARE. He is spending a few weeks in Mexico perfecting his Spanish as an aid to his work in Honduras, where he will captain a team whose goal is to take total community health to this area.

Dr. Ockenden, a general practitioner, is a graduate of the U of T Faculty of Medicine. He interned at St. Joseph's Hospital, Toronto.